Abstract

It is possible to match a parts model with a two-dimensional drawing. A parts model has shape changing
5   elements whose shapes are changed before and after assembling and other common elements. Three-dimensional shape data on the shapes of the shape changing elements before assembling and their shapes after assembling and the shapes of the common elements are stored as three-dimensional shape data on the
10   parts model in a database 12. A calculation unit 14 sets a restriction condition to become a single part between the shapes of the shape changing elements before assembling and the shapes of the common elements for the three-dimensional shape data stored in the database 12 and sets a restriction
15   condition to become a single part between the shapes of the shape changing elements after assembling and the shapes of the common elements, so that three-dimensional shape data is spread into the two-dimensional drawing according to the restriction condition and displayed on the screen of the
20   display unit 16.

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